

Sunshine Canyon Landfill Alternative Daily Cover Pilot Overview

Los Angeles County
Solid Waste Management Committee
Integrated Waste Management Task Force
Facility and Plan Review Sub-Committee



July 16, 2015

Alternative Daily Cover – Pilot

□ Pilot Objectives

- To determine if the geosynthetic panel product meets the performance requirements of Title 27 Section 20690 for controlling blowing litter, vectors, fires, odor and scavenging.
- To determine if the geosynthetic panel product is as effective as 9” of soil as a daily cover material.

EnviroCover Product Overview

- Nonreusable geosynthetic cover system
- Meets EPA requirements to control disease vectors, fires, odors, blowing litter and scavenging without presenting a threat to human health or the environment.
- Maintains “garbage-to-garbage” contact allowing gas and liquids to flow freely to collection systems as designed.
- Material is 1.75 mil thick and designed to provide coverage for up to 4 weeks.
- Tear and puncture resistant with the ability to stretch over uneven surfaces.
- Once buried, the material is mechanically destroyed and will not impede the natural process of waste degradation nor interfere with gas and leachate collection systems.

EPI Environmental Products - Overview

- EnviroCover is a product of EPI Environmental Products, Inc.
 - Has supplied the EnviroCover ADC product to landfills nationally and internationally for over 20 years (USA, Canada, Australia, Argentina, UK, France, Italy, Portugal, Indonesia)
 - Has been used in California, Alaska, Louisiana, Oregon, Utah, Nevada, Alabama, South Carolina, North Carolina, Arkansas, New England, Texas, New Mexico, Iowa, Arizona, Minnesota, New York, Missouri, Wisconsin, West Virginia
 - California landfills located Los Angeles County, Fresno, Santa Maria, Lompoc, El Cajon, Counties of Merced and Tulare
 - Previously utilized at the Puente Hills Landfill for over 10 years until the site's closure.

EnviroCover ADC - Deployment



EnviroCover – ADC Deployment

Ballast being discharged from left conveyor.



Ballast being discharged from right conveyor.

Space between conveyors allow ballast to anchor the middle

These three streams of ballast ensure that the 18 foot wide EC film is anchored securely to the working face.

ADC Pilot - Operational Overview

- The material will be placed over the entire deck of the working face with
a maximum working face size of 2-3 acres.
- It will not be placed on any outside slopes. Soil will be used as cover material on the outside slopes.
- The material will be used on one lift per day.
- The material will be left in place at the start of the next day's operation and covered with trash.
- At the close of business Saturday, 9" of soil will be placed and peeled back on Monday morning at the start of the day.
- Daily, documented inspections will be conducted to examine the material
at the start and end of each working day.

ADC Pilot - Operational Overview

- During high wind conditions, operational adjustments will be made to compensate for weather conditions. Typically this will include:
 - Taking wind measurements to determine the direction the wind is coming from;
 - Deploying the geosynthetic panels parallel to the wind direction to minimize potential uplifting of the material while it is being deployed;
 - Placement of additional ballast material;
 - Providing for additional overlap of the panels.
- If the material cannot be put down to provide the necessary coverage during high wind conditions the working face area will be covered with 9" of soil cover.

ADC Pilot · Performance Requirements

- For the demonstration project, performance criteria will be evaluated for the duration of the pilot.
- The landfill working face area will be inspected daily by site personnel as well as on-site LEA personnel reviewing for vectors, fires, blowing litter, scavenging, and odor.
- Two weather stations located at SCL will collect weather information on a continuous basis including temperature, humidity, wind speed, wind direction and precipitation.
- Daily monitoring reports and weather information will be provided to the SCL LEA and LA County Public Works on a monthly basis.

ADC Pilot - Monthly Reporting

- Monthly reports will include:
- All monitoring observations including the daily logs.
- Any maintenance issues for the month related to the equipment used for the pilot project.
- Reports of any tears, punctures or unusual observations related to the application of the material.
- Any immediate odors detected at the vicinity of the working face during and after the application of the product.
- Any unusual occurrence at the working face such as fire, vectors, blowing litter and scavenging.
- The daily weather information collected from the site's weather stations.

Thank You